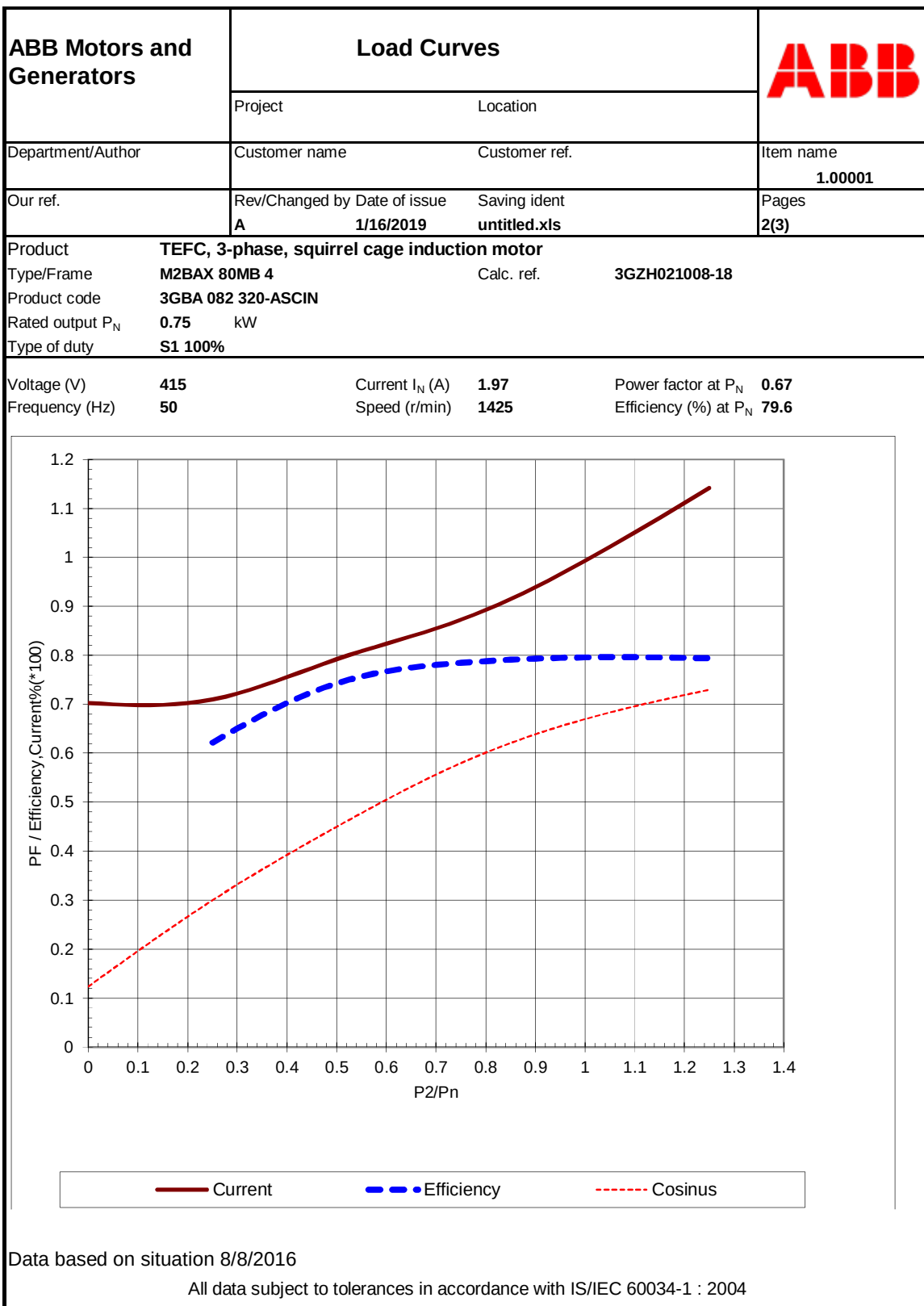


ABB Motors and Generators		Technical Data Sheet				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name 1.00001
Our ref.		Rev/Changed by A	Date of issue 1/16/2019	Saving ident untitled.xls		Pages 1(3)
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 082 320-ASCIN		Calc. ref.	3GZH021008-18	
3	Type/Frame	M2BAX 80MB 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P_N	0.75	kW			
6	Service factor	1				
7	Type of duty	S1 100%				
8	Rated voltage U_N	415	VY	+10, -10 %		
9	Rated frequency f_N	50	Hz	+5, -5 %		
10	Rated speed n_N	1425	r/min			
11	Rated current I_N	1.97	A			
12						
13	Starting current I_s/I_N	6				
14	Nominal torque T_N	5	Nm			
15	Locked rotor torque T_s/T_N	3				
16	Maximum torque T_{max}/T_N	3.5				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	1.97	79.6 / IE2	0.67	
20		75	1.72	78.5	0.58	
21		50	1.56	74.3	0.45	
22						
23	Thermal withstand time hot	6	s			
24	Thermal withstand time cold	13	s			
25	Insulation class / Temperature class	F / B				
26	Ambient temperature	50	°C			
27	Altitude	1000	m.a.s.l.			
28	Degree of protection	IP55				
29	Cooling system	IC411 self ventilated				
30	Bearing DE/NDE	6204-2Z/C3 - 6203-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	61	dB(A)	at no-load		
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.00247	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	4	kg			
36	Total weight of motor	17	kg			
37						
38						
39						
40						
41						
42						
43						
44						
45						
Ex-motors						
46						
47						
48						
Option Variant Codes / Definition						
49						
50						
51						
52						
Remarks:						
Data based on situation 8/8/2016						

All performance values are subject to IS/IEC tolerances



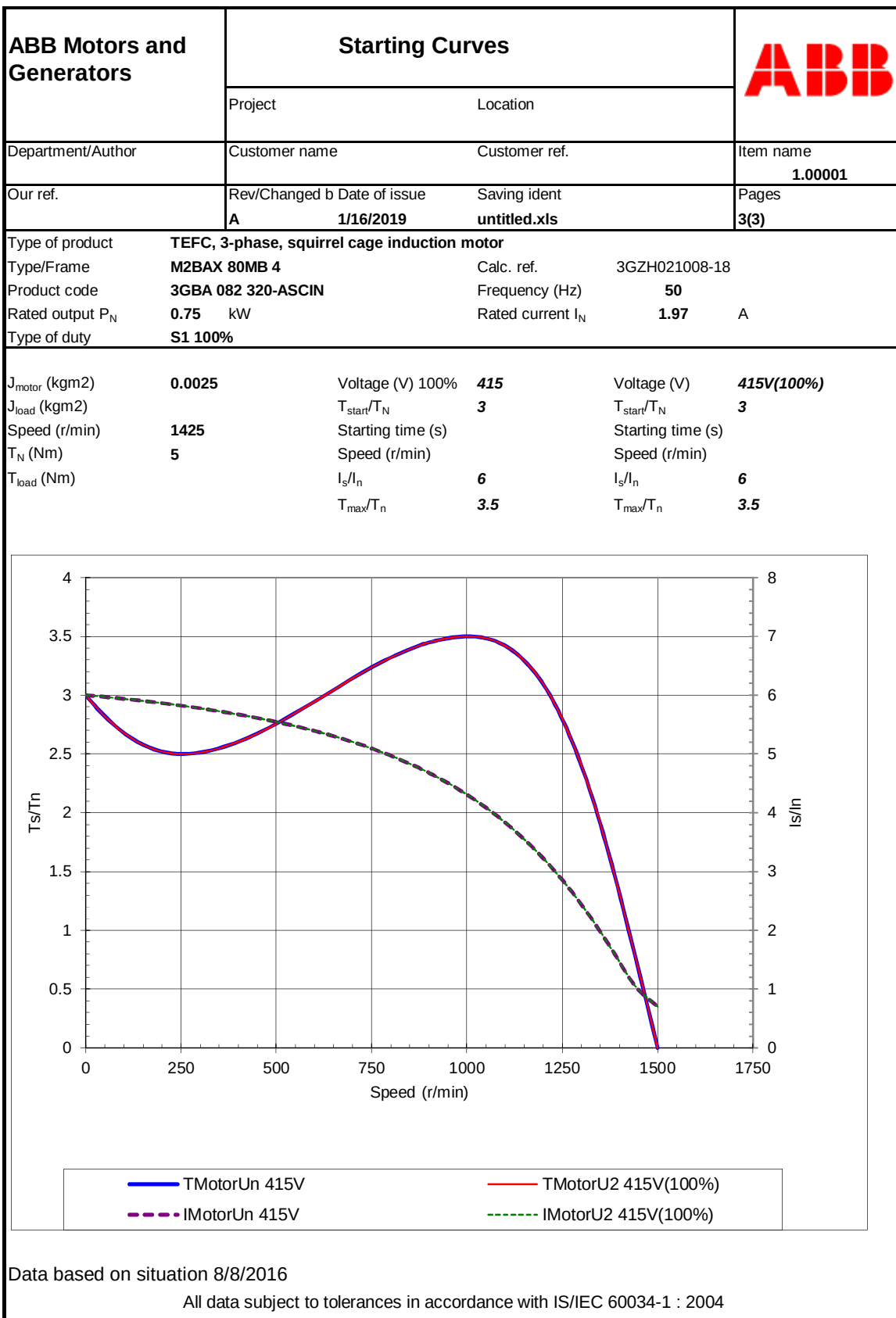
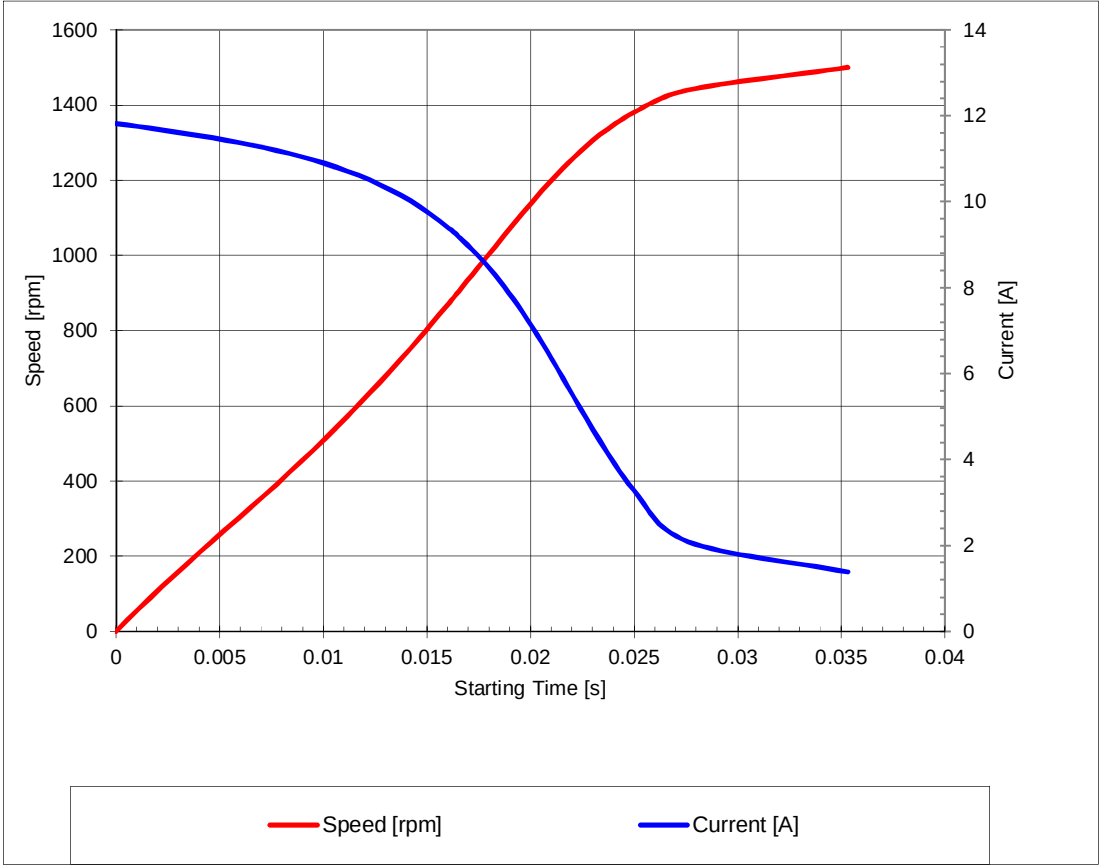


ABB Motors and Generators	Current & Speed Vs Time			
	Project		Location	
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed b Date of issue A 1/16/2019	Saving ident untitled.xls		Pages 4(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 80MB 4	Calc. ref.	3GZH021008-18	
Product code	3GBA 082 320-ASCIN	Frequency (Hz)	50	
Rated output P _N	0.75 kW	Rated current I _N	1.97	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	0.0025	Voltage (V) 100%	415	Voltage (V) 415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	3	T _{start} /T _N 3
Speed (r/min)	1425	Starting time (s)		Starting time (s)
T _N (Nm)	5	Speed (r/min)		Speed (r/min)
T _{load} (Nm)		I _s /I _N	6	I _s /I _N 6
		T _{max} /T _N	3.5	T _{max} /T _N 3.5



Speed [rpm]

Current [A]

Data based on situation 8/8/2016

All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004

